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Amendment filed with RCE
Attorney Docket No. A39.2B-11304-US01

Amendments To The Claims:

1. (Currently amended) A system for programming a fuze comprising:
a fuze having a power receiver and a data receiver, ~~the receiver located within the fuze;~~
and
a fuze setter having a power transmitter and a data transmitter;
wherein operational power for the fuze is inductively transmitted from the power transmitter to the power receiver; and pre-launch fuze setting data is transmitted from the data transmitter to the data receiver via an electromagnetic signal selected from a group consisting of the infrared, RF, visible and UV bands of the electromagnetic spectrum.
2. (Currently amended) The system of claim 1, wherein the power transmitter fuze setter further comprises an inductive coil transmitter; and the fuze further data transmitter comprises an antenna ~~a magnetic transducer; and operational power for the fuze is inductively transmitted from the fuze setter to the fuze.~~
3. (Currently amended) The system of claim 1, wherein the fuze ~~further includes~~ comprises a data transmitter having an antenna; the fuze setter ~~further includes~~ comprises a data receiver; and the setting data received by the fuze is verified by a reverse transmission from the fuze data transmitter back to the fuze setter data receiver.
4. (Currently amended) The system of claim 1, wherein the data transmitter is within 6 inches of the data receiver.
5. (Currently amended) A system for programming a fuze comprising:
a fuze ~~having~~ comprising a power receiver and a radio frequency data receiver, ~~the radio frequency receiver located within the fuze; and~~
a fuze setter ~~having~~ comprising a power transmitter and a radio frequency data transmitter;
wherein operational power for the fuze is inductively transmitted from the power transmitter to the power receiver; and pre-launch fuze setting data is transmitted from the radio frequency data transmitter and received by the radio frequency data receiver.
6. (Currently amended) The system of claim 5, wherein the radio frequency data receiver of the fuze comprises a radio frequency transceiver; and the radio frequency data transmitter of the fuze setter comprises a radio frequency transceiver.

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7. (Previously Presented) The system of claim 6, wherein a talkback signal is sent from the fuze transceiver to the fuze setter transceiver to verify the setting data.
8. (Original) The system of claim 5, wherein the fuze setting data is transmitted via a frequency modulated carrier signal.
9. (Original) The system of claim 8, wherein the fuze setting data is transmitted using frequency shift keying.
10. (Currently amended) The system of claim 5, wherein the ~~fuze setter further power transmitter~~ comprises an inductive coil and transmitter; the data transmitter fuze further comprises an antenna a magnetic transducer; and operational power for the fuze is inductively transmitted from the fuze setter to the fuze.
11. (Currently amended) The system of claim 5, wherein the data transmitter is within 6 inches of the data receiver.
12. (Currently amended) The system of claim 5, wherein the data transmitter comprises a level shifter, a modulation circuit and an antenna.
13. (Original) The system of claim 12, wherein the level shifter comprises a first digital-to-analog converter and a second digital-to-analog converter, the output of the first digital-to-analog converter having a higher voltage than the output of the second digital-to-analog converter.
14. (Currently amended) The system of claim 5, wherein the data receiver comprises an antenna, a modulation circuit and an analog-to-digital converter.
15. (Previously Presented) The system of claim 5, wherein at least 1,000 bits/second is transmitted from the transmitter to the receiver.
16. (Previously Presented) The system of claim 5, wherein at least 70,000 bits/second is transmitted from the transmitter to the receiver.
17. (Previously Presented) The system of claim 5, wherein at least 500,000 bits/second is transmitted from the transmitter to the receiver.
18. (Previously Presented) The system of claim 5, wherein at least 1,000,000 bits/second is transmitted from the transmitter to the receiver.
19. (Withdrawn – currently amended) A fuze setter comprising:
a controller;

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a power transmitter comprising an magnetic inductive coil arranged to transmit portion
~~for generating~~ a magnetic waveform output; and

a radiative data transmitter portion comprising an antenna arranged to transmit generating
a radiative data signal output;

wherein the radiative data signal output contains fuze setting data.

20. (Withdrawn— currently amended) The fuze setter of claim 19, wherein the radiative data
~~transmitter portion~~ comprises a radio-frequency transmitter having an antenna.

21. (Currently amended) A method of setting a projectile fuze comprising:

providing a fuze ~~having~~ comprising a power receiver and a radio frequency data receiver
~~located within the fuze;~~

providing a fuze setter ~~having~~ comprising a power transmitter and a radio frequency data
transmitter, the power transmitter comprising an inductive coil, the radio frequency data
transmitter comprising an antenna; and

transmitting operational power for the fuze from the power transmitter to the power
receiver; and

transmitting fuze setting data from the radio frequency data transmitter to the radio
frequency data receiver.

22. (Currently amended) The method of claim 21, wherein the step of transmitting fuze
~~setting data from radio frequency transmitter to the radio frequency receiver~~ comprises:

modulating a radio frequency carrier signal using frequency shift keying;

transmitting the modulated carrier signal via the radio frequency data transmitter;

receiving the modulated carrier signal via the radio frequency data receiver; and

down converting the modulated carrier signal.

23. (Currently amended) The method of claim 21, wherein the step of transmitting
operational power is performed for an initial power-up period before the step of transmitting fuze
setting data is performed further comprising:

— ~~providing the fuze with a magnetic transducer;~~

— ~~providing the fuze setter with a magnetic transmitter; and~~

— ~~inductively transmitting power to the fuze.~~

24. (Currently amended) A system for programming a fuze comprising:

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a fuze comprising a power receiver and a data receiver, ~~the receiver located within the~~
fuze; and

a fuze setter having comprising a power transmitter and a data transmitter, the power
transmitter comprising an inductive coil;

wherein the power transmitter transmits an inductive power carrier signal and the data
transmitter transmits an electromagnetic signal comprising pre-launch fuze setting data, and the
data receiver receives the electromagnetic signal.

25. (Previously Presented) The system of claim 24, wherein the electromagnetic signal has a
frequency ranging from greater than 100 kHz to 100 PHz.